

wherein the first, second, and third polyolefins are all based on the same main monomer;
yielding the foam layer of the first polyolefin coated on at least one side with the first coating film.

18. The packaging material of claim 17, wherein the method further comprises the steps of:

producing by extrusion or coextrusion a second coating film comprising at least one surface layer of a fourth polyolefin;

producing by extrusion, between the second side of the foam sheet and the surface layer of the second coating film, a second bonding layer of a fifth polyolefin, and immediately applying pressure to the foam sheet and the second coating film;

wherein the fourth and fifth polyolefins are all based on the same main monomer as that of the first, second, and third polyolefins;

yielding the foam layer of the first polyolefin coated on one side with the first coating film and on the other side with the second coating film.

19. A packaging material comprising:

a foam sheet of a first polyolefin, said foam sheet having first and second sides;

a first coating film comprising at least one surface layer of a second polyolefin;

a first bonding layer of a third polyolefin between the first side of the foam sheet and the surface layer of the first coating film;

wherein the first, second, and third polyolefins are all based on the same main monomer.

20. The packaging material of claim 19 wherein the first coating film further comprises at least a second layer coextruded with the surface layer.

21. The packaging material of claim 19 wherein the first bonding layer has a thickness of between 5 and 30 μm .

22. The packaging material of claim 19 wherein at least one of the outermost layers of the packaging material is a sealing layer comprising low density polyethylene.

packaging material is a sealing layer comprising peelable polyethylene.

24. The packaging material of claim 19 wherein the monomer of the polyolefin of the foam sheet is propylene.

25. The packaging material of claim 19 wherein the first coating film further comprises a sealing layer of polyethylene, a barrier layer of ethylene-vinyl-alcohol-copolymer between the sealing layer and the surface layer of the second polyolefin, a first adhesive layer of a propylene copolymer between the barrier layer and the surface layer of the second polyolefin, and a second adhesive layer of an ethylene copolymer between the barrier layer and the sealing layer.

26. The packaging material of claim 19 wherein the first coating film further comprises a protecting layer of polypropylene, a sealing layer of ethylene-vinyl-alcohol-copolymer between the protecting layer and the surface layer of the second polyolefin, a first adhesive layer of a propylene copolymer between the sealing layer and the surface layer of the second polyolefin, and a second adhesive layer of a propylene copolymer between the sealing layer and the protecting layer.

27. The packaging material of claim 19 further comprising a sealing layer of polyethylene and an adhesive layer between the sealing layer and the surface layer, the second polyolefin comprising polypropylene.

28. The packaging material of claim 19 wherein the polyolefin of the foam sheet is a mixture of long chain branching polypropylene and an ethylene-propylene copolymer.

29. The packaging material of claim 19 wherein the first coating film and the first bonding layer together have a thickness of between 5 and 60 μm .

30. The packaging material of claim 19 further comprising:

a second coating film comprising at least one surface layer of a fourth polyolefin;

a second bonding layer of a fifth polyolefin between the second side of the foam sheet and the surface layer of the second coating film;

wherein the fourth and fifth polyolefins are all based on the same main monomer as that of the first, second, and third polyolefins.

31. The packaging material of claim 30 wherein the second coating film further comprises at least a second layer coextruded with the surface layer.

32. The packaging material of claim 30 wherein the second bonding layer has a thickness of

33. The packaging material of claim 30 wherein the first and second coating films are dissimilar.

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